From:	Khan, Kanwer
To:	awilliams@calwater.com; ayodele.mcclenney@dcwater.com; cgoodwin@fcgov.com; cjones@sfwater.org; cmalavolta@cfl.rr.com; disclint@gmail.com; egoldman@sfwater.org; Elizabeth Turner; jleano@sfwater.org; jose.albors@veolia.com; jswindler@csu.org; jtlyons@aquaamerica.com; Khan, Kanwer; kingt@roza.org; mikej@tvwd.org; pbouyounes@ocwd.com; peg.mcshane@seattle.gov; rhelinski@iceservices.net; rkalkman@hollandbpw.com; robsaf2002@yahoo.com; rodriguez@dsrsd.com; shanon.winston@stocktonca.gov; Suvid Surendran; troyer@auroragov.org; wkomianos@yahoo.com; wmonroe@co.augusta.va.us; zachandaundi@msn.com
Cc:	EGoldman@sfwater.org
Subject:	FW: Wastewater Working Group - NFPA 820 Declassification by Ventilatilon
Date:	Sunday, February 25, 2018 12:20:11 PM

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Dear UPS-WW Subcommittee Members,

Please read question from Eric on electrical classification below and respond directly to him.

Regards,

Kanwer

From: Goldman, Eric [mailto:EGoldman@sfwater.org]
Sent: Friday, January 19, 2018 12:41 PM
To: Khan, Kanwer <Kanwer.Khan@suez-na.com>
Subject: Wastewater Working Group - NFPA 820 Declassification by Ventilatilon

Hello Mr. Khan,
My name is Eric Goldman and I'm a member of the ASSE Wastewater Working group which recently convened via conference call last week. I came on the call late and missed the opportunity to introduce myself. I work as an Industrial Hygienist for the San Francisco Public Utility Commission, supporting San Francisco's wastewater system.

I look forward to working with the group in the interest of sharing safety interests and concerns with a goal of establishing standardized best work practices for employees in the wastewater industry.

I would like to propose a question to the group related to NFPA 820 and the design of a new treatment plant being designed. Currently San Francisco is in the design phase of a new biosolids handling plant. The design calls for thermophilic digesters with an enclosed work space under the digester complex. The enclosed work spaces include sludge pumps, piping, and all process equipment (condensate traps) that would be consistent with a wastewater digester complex. According to NFPA 820, these spaces can be electrically declassified (e.g. Class I, Div II) if there is sufficient ventilation. Internally, our safety and operations groups have concerns that if the ventilation goes down (which it has often) a ruptured pipe, pump or seal, could lead to an explosive atmosphere and the area would not be designed to a to an electrical standard appropriate for the hazard (unclassified equipment motors, light switches, receptacles, etc…).

I'm curious if any other wastewater treatment plants permitted spaces under a digester to be electrically unclassified based on ventilation? And, do people believe this approach (even though it's permitted by NFPA 820) to be wise?

Perhaps this question could be posed to the group at an appropriate time.

Please let me know if you have any questions or suggestions on pursuing input on this issue.

Thank you,
Eric Goldman

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